

## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification <sup>6</sup> : <b>A61M 25/00</b>		A1	(11) International Publication Number: <b>WO 98/36790</b>
			(43) International Publication Date: <b>27 August 1998 (27.08.98)</b>
(21) International Application Number: <b>PCT/US98/03178</b>		(81) Designated States: CA, JP, US, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).	
(22) International Filing Date: <b>19 February 1998 (19.02.98)</b>			
(30) Priority Data:		Published	
60/038,231	19 February 1997 (19.02.97)	US	<i>With international search report.</i>
60/040,708	14 March 1997 (14.03.97)	US	<i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
60/040,455	14 March 1997 (14.03.97)	US	
60/051,758	7 July 1997 (07.07.97)	US	
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(54) Title: MULTI-PURPOSE CATHETERS, CATHETER SYSTEMS, AND RADIATION TREATMENT

## (57) Abstract

This invention is new apparatuses and methods for treatments to be used from inside conduits or biological pathways. Examples of the biological pathways in which these new apparatuses and methods may be used include arteries, veins, and respiratory ways. Multi-purpose catheters (10) and catheter systems using structures including wires (2108), balloons (2150), and cords (2204) are described as well as methods to use such catheters and catheter systems. One of the embodiments is a configurable wire system which carries or transports radioactive sources. The wire is used in conjunction with a closed-end channel catheter.

